```
=> s l1
L2          264 L1

=> s l2 and fungicides/it
         101454 FUNGICIDES/IT
L3          177 L2 AND FUNGICIDES/IT

=> s l3 and (py<2004 or ay<2004 or pry<2004)
       24041653 PY<2004
        4812409 AY<2004
        4285777 PRY<2004
L4           44 L3 AND (PY<2004 OR AY<2004 OR PRY<2004)

=> s l4 and (spore germinat?)
          27069 SPORE
          23843 SPORES
          40047 SPORE
                  (SPORE OR SPORES)
          66459 GERMINAT?
           7275 SPORE GERMINAT?
                  (SPORE(W)GERMINAT?)
L5             0 L4 AND (SPORE GERMINAT?)

=> s l4 and spore?
          40484 SPORE?
L6             0 L4 AND SPORE?

=> s l4 and (mycelium or mycelial)
          17095 MYCELIUM
             30 MYCELIUMS
           9522 MYCELIA
              2 MYCELIAS
          24491 MYCELIUM
                  (MYCELIUM OR MYCELIUMS OR MYCELIA OR MYCELIAS)
          10538 MYCELIAL
              2 MYCELIALS
          10539 MYCELIAL
                  (MYCELIAL OR MYCELIALS)
L7             1 L4 AND (MYCELIUM OR MYCELIAL)


L7   ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2009 ACS on STN
TI   SZX 722: a novel systemic oomycete fungicide
AB    SZX 722 (iprovalicarb) is a new fungicide for the control of
      diseases caused by Oomycetes.  This paper describes its chemical
      properties, mode of action, fungicidal spectrum of activity and
      performance in the field.  The compound inhibits the growth of the
      germ tubes of zoospores and sporangia, the growth of mycelium and
      the sporulation of oomycete fungi, leading to strong protective,
      curative and eradicative efficacy.  SZX 722 has systemic
      properties and is distributed throughout the plant by the
      transpiration stream.  It does not show cross resistance to
      specific oomycete compds. such as metalaxyl or cymoxanil,
      indicating a different mode of action.  SZX 722 is especially
      active against Plasmopara viticola on grape, with excellent
      activity on leaves as well as on bunches.  The compound also
      controls Phytophthora infestans on potato and tomato and is highly
```

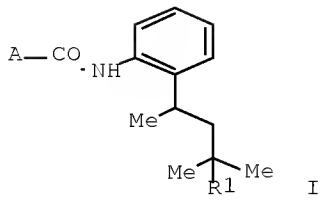
active against other oomycete pathogens on vegetables e.g. Pseudoperonospora cubensis on cucumber and blue mold (Peronospora tabacina) on tobacco. SZX 722 is currently under development for the control of soil-borne Phytophthora diseases e.g. on tobacco, citrus and other crops. A number of combination products (e.g. with contact fungicides such as folpet, propineb, mancozeb, or tolylfluanid) are being developed to provide a broad spectrum of activity under the various growing conditions of the different target crops and good anti-resistance management.

ACCESSION NUMBER: 1999:517213 HCAPLUS Full-text
DOCUMENT NUMBER: 131:195714
TITLE: SZX 722: a novel systemic oomycete fungicide
AUTHOR(S): Stenzel, K.; Pontzen, R.; Seitz, T.; Tiemann, R.;
Witzenberger, A.
CORPORATE SOURCE: Bayer AG, Crop Protection Business Group, Agricultural
Centre Monheim, Leverkusen, D-51368, Germany
SOURCE: Brighton Crop Protection Conference--Pests and Diseases (1998), (vol. 2), 367-374
CODEN: BCPDED; ISSN: 0955-1506
PUBLISHER: British Crop Protection Council
DOCUMENT TYPE: Journal
LANGUAGE: English
CC 5-2 (Agrochemical Bioregulators)
IT Fungicides
(agrochem., systemic; SZX 722 as a systemic Oomycetes fungicide)
IT 140923-17-7, SZX 722:
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(SZX 722 as a systemic Oomycetes fungicide)
OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD
(9 CITINGS)

L1 1 S E3

FILE 'HCAPLUS' ENTERED AT 14:46:06 ON 10 NOV 2009
L2 264 S L1
L3 177 S L2 AND FUNGICIDES/IT
L4 44 S L3 AND (PY<2004 OR AY<2004 OR PRY<2004)

L4 ANSWER 5 OF 44 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic fungicidal combinations comprising a carboxamide derivative
GI



I

AB Synergistic fungicidal combinations comprise a carboxamide derivative I [R1 = H, halo or (halo)alkyl; R1 = (un)substituted Ph, furyl, pyridinyl, etc.] and any of a very large number of known fungicides.

ACCESSION NUMBER: 2005:405320 HCAPLUS Full-text
DOCUMENT NUMBER: 142:425351
TITLE: Synergistic fungicidal combinations comprising a carboxamide derivative
INVENTOR(S): Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dunkel, Ralf; Elbe, Hans-Ludwig; Rieck, Heiko; Suty-Heinze, Anne
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 126 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

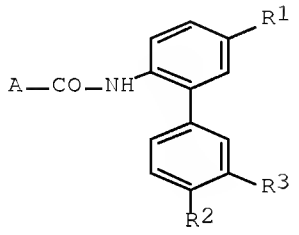
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005041653	A2	20050512	WO 2004-EP11403	20041012 <--
WO 2005041653	A3	20050728		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO,

SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

L4 ANSWER 6 OF 44 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic fungicidal combinations comprising carboxamide derivatives
GI



I

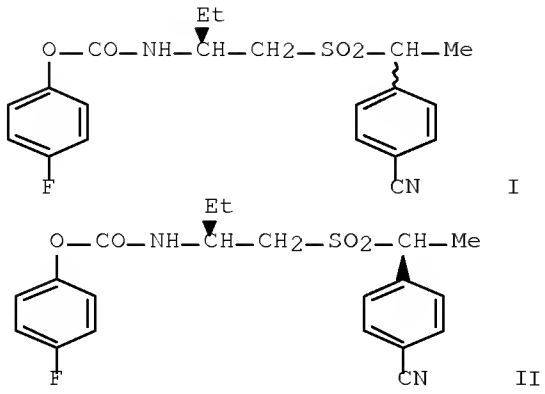
AB Synergistic fungicidal mixts. comprise a carboxamide derivative I [R1= H or F; R2 = halo, (halo)alkyl or (halo)alkoxy; , R3 = H, halo or (halo)alkyl; A = (un)substituted Ph, imidazolyl, thiazolyl, etc.] and any of 22 groups of known fungicides.

ACCESSION NUMBER: 2005:346774 HCAPLUS Full-text
DOCUMENT NUMBER: 142:387616
TITLE: Synergistic fungicidal combinations comprising carboxamide derivatives
INVENTOR(S): Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dunkel, Ralf; Elbe, Hans-Ludwig; Suty-Heinze, Anne; Rieck, Heiko
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 141 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005034628	A1	20050421	WO 2004-EP10830	20040928 <--

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,

NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE,
DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO,
SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE,
SN, TD, TG
DE 10347090 A1 20050504 DE 2003-10347090
20031010 <--
IN 2004DE01737 A 20070330 IN 2004-DE1737
20040915 <--
AU 2004279674 A1 20050421 AU 2004-279674
20040928 <--
CA 2541646 A1 20050421 CA 2004-2541646
20040928 <--
EP 1675461 A1 20060705 EP 2004-765648
20040928 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
PT,
IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
BR 2004015449 A 20061219 BR 2004-15449
20040928 <--
MX 2006003779 A 20060614 MX 2006-3779
20060404 <--
ZA 2006002860 A 20070530 ZA 2006-2860
20060407 <--
US 20070060579 A1 20070315 US 2006-573066
20061024 <--
IN 2008DE01852 A 20090403 IN 2008-DE1852
20080805 <--
PRIORITY APPLN. INFO.: DE 2003-10347090 A
20031010 <--
IN 2004-DE1737 A3
20040915
WO 2004-EP10830 W
20040928
L4 ANSWER 11 OF 44 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic compositions useful as fungicides
GI



I

II

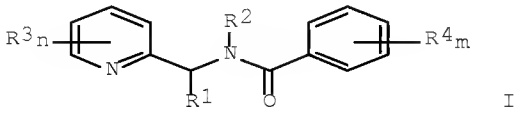
AB The compns. comprise aminosulfones (I) or (II) and at least one other fungicide are provided.

ACCESSION NUMBER: 2004:513448 HCAPLUS Full-text
DOCUMENT NUMBER: 141:49004
TITLE: Synergistic compositions useful as fungicides
INVENTOR(S): Owen, William John; Huang, Zhengyu
PATENT ASSIGNEE(S): Dow Agrosciences Llc, USA
SOURCE: PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052102	A1	20040624	WO 2003-US39036	20031205 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003296366	A1	20040630	AU 2003-296366	

20031205 <--
EP 1569518 A1 20050907 EP 2003-812880
20031205 <--
EP 1569518 B1 20080611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
CN 1731930 A 20060208 CN 2003-80107442
20031205 <--
CN 100340167 C 20071003
JP 2006525954 T 20061116 JP 2005-508507
20031205 <--
ZA 2005003970 A 20061129 ZA 2005-3970
20031205 <--
NZ 540111 A 20080430 NZ 2003-540111
20031205 <--
AT 397861 T 20080715 AT 2003-812880
20031205 <--
ES 2304549 T3 20081016 ES 2003-812880
20031205 <--
MX 2005005982 A 20050819 MX 2005-5982
20050603 <--
US 20060153933 A1 20060713 US 2005-538244
20050606 <--
PRIORITY APPLN. INFO.: US 2002-431397P P
20021206 <--
US 2003-443747P P
20030130 <--
US 2003-452205P P
20030305 <--
US 2003-456296P P
20030320 <--
US 2003-464230P P
20030421 <--
US 2003-474004P P
20030529 <--
WO 2003-US39036 W
20031205 <--

L4 ANSWER 17 OF 44 HCAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic fungicidal composition comprising pyridylmethylbenzamide and
valinamide derivatives
GI



I

AB Synergistic fungicidal compns. comprise a pyridylmethylbenzamide derivative I [R1 = H, (un)substituted alkyl or acyl; R2 = H or

(un)substituted alkyl; R3, R4 = halo, OH, CN, NO2, etc.; m, n = 0, 1-4] and a valinamide derivative, preferably iprovalicarb and N1-[(R)-1-(6-fluoro-2-benzothiazolyl)ethyl]-N2- isopropoxycarbonyl-L-valinamide.

ACCESSION NUMBER: 2003:378633 HCAPLUS Full-text
DOCUMENT NUMBER: 138:350011
TITLE: Synergistic fungicidal composition comprising pyridylmethylbenzamide and valinamide derivatives
INVENTOR(S): Wegmann, Thomas; Mercer, Richard
PATENT ASSIGNEE(S): Aventis CropScience SA, Fr.
SOURCE: Fr. Demande, 26 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2832031	A1	20030516	FR 2001-14692	20011114 <--
CA 2463718	A1	20030522	CA 2002-2463718	20021113 <--
WO 2003041501	A1	20030522	WO 2002-EP13490	20021113 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002363604	A1	20030526	AU 2002-363604	20021113 <--
EP 1443821	A1	20040811	EP 2002-790457	20021113 <--
EP 1443821	B1	20061115		

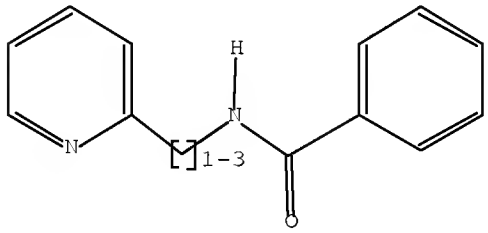
L5 0 S L4 AND (SPORE GERMINAT?)
L6 0 S L4 AND SPORE?
L7 1 S L4 AND (MYCELIUM OR MYCELIAL)

```
L8             0 S L4 AND GERMINAT?

     FILE 'REGISTRY' ENTERED AT 14:57:34 ON 10 NOV 2009
L9               STRUCTURE UPLOADED

L9       STRUCTURE UPLOADED

=> d l9
L9 HAS NO ANSWERS
L9               STR
```




```
L10           50 S L9 SSS SAM
L11         7200 S L9 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 14:58:32 ON 10 NOV 2009
L12          875 S L11
L13            3 S L12 AND (GERMINAT?)
L14            0 S L13 AND (PY<2004 OR AY<2004 OR PRY<2004)
L15            4 S L12 AND (MYCELIAL OR MYCELIUM)
L16            0 S L15 AND (PY<2004 OR AY<2004 OR PRY<2004)
L17       101454 S FUNGICIDES/IT
L18         3371 S L17 AND (SYNERGY OR SYNERGISTIC)
L19          116 S L18 AND (SPORE OR MYCELIUM OR MYCELIAL)
L20           82 S L19 AND (PY<2004 OR AY<2004 OR PRY<2004)
```